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Docket No.: 1572.1185

CLAIMS

USE 6369538

or

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What is claimed is:

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1. A motor control apparatus supplying AC power to a motor having a plurality of motor windings, comprising:

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A an inverting part comprising:

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B a bridge circuit having a plurality of first and second switching units, and supplying the AC power to the motor;

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C brake relays short circuiting the motor windings by turning on when the motor brakes; D brake resistors, respectively, connected to the plurality of motor windings and consuming an overcurrent generated by the motor when the brake relays short circuit the plurality of motor windings; and

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E a switching controller turning on and turning off one of the first and second switching units provided in respective opposite ends of the inverting part so that the overcurrent consumed by the brake resistors is changeable in proportion to a rotation speed of the motor, when the brake relays short circuit the plurality of motor windings.

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2. The motor control apparatus according to claim 1, wherein the overcurrent consumed by respective one or ones of the brake resistors is changed in proportion to a duty cycle of the first and second switching units turned on and turned off by the switching controller.

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3. The motor control apparatus according to claim 2, further comprising:

a speed detecting part detecting the rotation speed of the motor, wherein the switching controller turns on and turns off the first and second switching units so that the duty cycle of one of the first and second switching units is in proportion to the rotation speed of the motor detected by the speed detecting part.

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4. The motor control apparatus according to claim 1, wherein each of the first and second switching units of the inverting part comprises:

a transistor; and

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